In the Claims:

1. (Currently Amended): A method of providing terrain elevation information to multiple users, the method comprising:

receiving a request at a server for terrain elevation information from one of multiple requestor devices remotely located from the server with parameters indicating location and at least one of the size, resolution, and type of terrain data required;

extracting requested terrain elevation information from a database of terrain data, the database being associated with the server;

transforming the extracted terrain elevation information formatted in a grid of values representing specific elevation characteristics; and

sending the formatted terrain elevation information to one of the multiple requestor ~~device~~ devices,

wherein the request is automatically generated by one of the multiple requestor devices.

2. (Previously Presented): The method of claim 1 wherein transforming comprises scaling the extracted terrain elevation information.

3. (Previously Presented): The method of claim 1 wherein transforming comprises modifying an orientation of the extracted terrain elevation information.

4. (Cancelled)

5. (Original): The method of claim 1 wherein the request comprises process control criteria.

6. (Previously Presented): The method of claim 5 wherein the process control criteria comprises response routing information and at least one of a priority indication, and integrity requirements.

7. (Previously Presented): The method of claim 1 wherein the request comprises an integrity requirement, and further comprising:

using separate terrain server systems to extract terrain elevation information based on a request;

comparing extracted terrain elevation information from the separate terrain server systems; and

outputting extracted terrain elevation information that meets integrity and accuracy requirements.

8-12. (Cancelled)

13. (Currently Amended): A system that provides terrain elevation information to multiple users, the system comprising:

means for receiving a request for terrain elevation information from one of multiple requestors with parameters indicating location and at least one of the size, resolution, and type of terrain data required;

a data extraction module that extracts requested terrain elevation information from a database of terrain data;

a data processing module that transforms the extracted terrain elevation information formatted in a grid of values representing specific elevation characteristics; and

means for sending the formatted terrain elevation information to the requestor,

wherein the request is automatically generated by one of the multiple requestors.

14. (Original): The system of claim 13 and further comprising means for managing queue functions related to the order in which requests are handled.

15. (Original): The system of claim 14 wherein queue functions comprise adding new requests, de-queuing of requests, and removing aborted requests.

16. (Original): The system of claim 13 and further comprising means for determining the priority of requests based on at least one of receive a order, request type, requested priority and classification of a requesting device.

17. (Currently Amended): A system that provides terrain elevation information to multiple users, the system comprising:

a request interface that receives requests for terrain elevation information from multiple requestors with parameters indicating location and at least one of the size, resolution, and type of terrain data required;

a data extraction module that extracts requested terrain elevation information from a database of terrain data;

a data processing module that transforms the extracted terrain elevation information formatted in a grid of values representing specific elevation characteristics; and

a response interface that sends the formatted terrain elevation information to the requestor,

wherein the request is automatically generated by the multiple requestors.

18. (Original): The system of claim 17 wherein the request interface and the response interface comprise a transceiver communicatively coupled to the multiple requestors.

19-21. (Canceled)

22. (Currently Amended): A system that provides terrain elevation information to multiple users, the system comprising:

request interface that receives requests for terrain elevation information from multiple requestors with parameters indicating location and at least one of the size, resolution, and type of terrain data required;

a first data extraction module that extracts requested terrain elevation information from a database of terrain data;

a second data extraction module that extracts requested terrain elevation information from a database of terrain data;

a data processing module that transforms the extracted terrain elevation information formatted in a grid of values representing specific elevation characteristics; and

a response interface that sends the formatted terrain elevation information to the requestor,

wherein the request is automatically generated by the multiple requestors.

23. (Previously Presented): The system of claim 22 wherein the data processing module compares extracted terrain elevation information from the first and second extraction modules.

24. (Previously Presented): The system of claim 22 wherein the data processing module combines extracted terrain elevation information from the first and second extraction modules.

25. (Previously Presented): The system of claim 22 and further comprising multiple further extraction modules operating in parallel to obtain terrain elevation information from different portions of the terrain identified in the request.

26. (Currently Amended): A method of providing terrain elevation information to multiple airborne clients, the method comprising:

receiving a request at a server for terrain elevation information from one of multiple airborne clients remotely located from the server with parameters indicating location and at least one of the size, resolution, and type of terrain data required;

extracting requested terrain elevation information from a database of terrain data, the database being associated with the server;

transforming the extracted terrain elevation information to a format identified in the request as compatible with the airborne client; and

sending the formatted terrain elevation information to the airborne client,

wherein the request is automatically generated by one of the multiple airborne clients.